



McLennan

PRECISION  
MOTION  
CONTROL

D.C. miniature gear-motors



micro  
motors s.r.l.



technology in motion





## general guide

## gear - motors



TYPE		1271	B138F BS138F	B138F.4/12 BS138F.4/12	HL149	HV155	1308	E192	P205
Voltage	V	4-6-12	6-12	12	12-24	12-24	12-24	12-24	12-24
Reduction		10 ÷ 392	12 ÷ 1470	12 ÷ 608	10 ÷ 90	10 ÷ 90	30 ÷ 630	3 ÷ 625	4 ÷ 625
Max Torque	Ncm	20	50	50	15	25	100	300	900
Speed (no load)	RPM	255 ÷ 6	220 ÷ 1.8	320 ÷ 6.5	315 ÷ 37	660 ÷ 75	110 ÷ 5	1100 ÷ 6.4	1024 ÷ 6.7
Speed (max Torque)	RPM	165 ÷ 4	155 ÷ 1.6	250 ÷ 5.3	220 ÷ 30	460 ÷ 62	70 ÷ 4.5	770 ÷ 6	640 ÷ 6.3
Dimensions	mm	Ø 27	Ø 34	Ø 34	Ø 30	Ø 30	Ø 39.6	Ø 40.5	42 x 42

**NOTE:**

It is recommended to avoid the use of the motor's internal inductance in PWM drive applications. It is advisable to use an external series inductance.



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### planetary



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### brushless planetary



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## TECHNICAL DATA

series

# 1308



VDR interference suppression on the collector  
 Direction of rotation depending on polarity  
 Can be mounted in any position  
 Maximum radial shaft load: 50N  
 Maximum axial shaft load: 10N  
 Temperature range: -20°C/60°C  
 Approx weight: 190g



Typical values at ambient temperature +20°  
 Tolerance +/- 10%

TYPE	NOMINAL VOLTAGE	L	RATIO TO:1	MAXIMUM TORQUE	SPEED		CURRENT	
					NO LOAD	AT MAX TORQUE	NO LOAD	AT MAX TORQUE
					rpm		mA	
1308 · 12/24 · 30	12/24	64	29.75	15	110	70	<60 <50	250 130
1308 · 12/24 · 75	12/24	66.5	76.84	30	43	28	<60 <50	230 120
1308 · 12/24 · 100	12/24	66.5	94.37	40	35	22	<60 <50	240 125
1308 · 12/24 · 200	12/24	69	198.5	80	17	10	<60 <50	250 130
1308 · 12/24 · 250	12/24	69	243.8	100	14	8.5	<60 <50	240 125
1308 · 12/24 · 510	12/24	72	512.85	100	6.5	5	<60 <50	150 80
1308 · 12/24 · 630	12/24	72	629.82	100	5	4.5	<60 <50	130 70

# 1308

